

INTERCOLLEGIATE BROADCASTING SYSTEM

TECHNICAL DEPARTMENT

507 FIFTH AVE.
NEW YORK, N. Y.

706 Sanders Ave.
Schenectady 2, N.Y.
February 20, 1945

Mr. Albert Ewell
Station WHAV
Haverford College
Haverford, Pa.

Dear Al:

Regarding your questions in your February 16 letter to Mr. Bloch concerning the method of broadcasting basketball games, the usual procedure in use at IBS colleges is to rent a local class E program loop from the Bell Telephone System. Refer to the Technical Data Book page TI3022-3 for description of these lines.

The students then build a remote amplifier (sometimes battery operated) which has inputs for two or three microphones, a volume indicating meter, and an output of .006 watts into a 600 ohm line. See diagram enclosed. A single 6J5 tube will do in the output. A push-pull 600 ohm cathode follower is used when output transformers are not available. The 6SN7 is about the best tube for this purpose, with another 6SN7 as a phase inverter to drive it.

If you are particularly interested in the cathode follower circuit I will try to make up a diagram of one soon.

The remote amplifier is fed into the telephone line, which line terminates in the studio and is arranged to feed into the input of the program mixer, probably in place of one of the phonograph pickups. Some means to talk back to the remote location is required to make arrangements before the broadcast, and if "Cue Signals" are fed into the line prior to the program the switch to the remote can be accomplished with ease and precision. Cue signals are the last portion of the show immediately before the remote is to begin. The last words of this preceding show are prearranged, and after these "cue" words the switch to the remote location is made, and at once the remote operator begins to talk. One good cue is the station break "This is the Intercollegiate Broadcasting System".

I enclose a circuit and Block Diagram for a mixer input circuit which was built in Brown in 1939. The mixer circuit is out of date, and not recommended, but the switching in the inputs to the lines channels will show how the three functions of Cue, Communications, and Program can be arranged on one switch, such as the Centralab three point selector switch (miniature key switch). You will note inputs for lines and phonos are the same, and by a switch could be combined. (You don't need more than 4 or 5 channels input).

Do not experiment with wireless connections to the remote point. It is illegal, and reception is not good enough for a sponsored program. Some day we may get licensed ultra-high frequency radio links for the colleges, on 900 mc. or above, but that day has not come as yet.

INTERCOLLEGIATE BROADCASTING SYSTEM

807 FIFTH AVE.
NEW YORK, N.Y.

TELEPHONE 4-1111

THE FOLLOWING IS A LIST OF THE
SCHOOL MEMBERS OF THE
INTERCOLLEGIATE BROADCASTING SYSTEM

Mr. [Name]
[Address]
[City, State, Zip]

Page 1

The following is a list of the school members of the Intercollegiate Broadcasting System. The list is arranged in alphabetical order of the school names. The list is subject to change without notice.

The following is a list of the school members of the Intercollegiate Broadcasting System. The list is arranged in alphabetical order of the school names. The list is subject to change without notice.

The following is a list of the school members of the Intercollegiate Broadcasting System. The list is arranged in alphabetical order of the school names. The list is subject to change without notice.

The following is a list of the school members of the Intercollegiate Broadcasting System. The list is arranged in alphabetical order of the school names. The list is subject to change without notice.

The following is a list of the school members of the Intercollegiate Broadcasting System. The list is arranged in alphabetical order of the school names. The list is subject to change without notice.

The following is a list of the school members of the Intercollegiate Broadcasting System. The list is arranged in alphabetical order of the school names. The list is subject to change without notice.

Mr. Albert Ewell

-2-

February 20, 1945

Your plans for a second studio sound very fine. I hope you are able to put the new controls in soon.

Write me directly if I can be of furthur help.

Sincerely,

INTERCOLLEGIATE BROADCASTING SYSTEM

Dave

David W. Borst
Technical Manager

Mr. William Bell, Pres.,
WHAU - Haverford College,
Haverford, Pa.

dwb:htb
cc

WCAU-FM (Formerly W69PH) has no objection to your rebroadcasting our FM programs over WHAV at the present time. It is advisable to check us from time to time, as permission to do so may be withdrawn in the future.

WCAU-FM Broadcasts from 3.00 to 11.00 P.M. on Tuesdays, and on certain Sundays and Wednesdays, as indicated by the enclosed schedule.

I would like to hear more from you about WHAV; information on the type of broadcasting it does, power, and whether or not its signal is available to anyone in your area owning an AM set.

Sincerely yours,
STATION WCAU-FM

Harry West
Harry West,
Director of Programs.

nw/gn

February 20, 1941

-2-

Mr. Albert Swell

Your plans for a second studio sound very fine. I hope you are able to put the new controls in soon.

Write me directly if I can be of further help.

Sincerely,

INTERMEDIATE BROADCASTING SYSTEM

David W. Davis
Technical Manager

Swell
cc